

Amendments to the Claims:

1. (currently amended) A static micromixer with at least one mixing chamber (4) and an upstream guide component (1) for the separate admission of two different fluids (a, b) to be mixed or to be dispersed, said guide component (1) including for each of said fluid flows at least two slot-like flat channels (5a, 5b) extending at an angle with respect to, the and from opposite sides of, a plane extending along a longitudinal axis of the micromixer, and normal to said slot-like flat channels (5a, 5b) such that said channels intersecting intersect each other without communicating and leading in mutually spaced relationship and in an alternating fashion at an exit area to a said mixing chamber (4), where they form a common exit cross-section of alternately arranged outlets of said slot-like channels for said different fluids (a, b), with webs disposed between adjacent outlet channels outlets at the exit side cross-section (3a, 3b) the height of the webs being less than 500  $\mu\text{m}$ , said channels in the said guide component having, for at least a part of the fluid flows to be mixed, having a cross-section which decreases from the channel inlet sides continuously toward and up to the channel exit sides area.

2. (original) A micromixer according to claim 1, wherein said slot-like channels are provided over at least part of their length with webs oriented in flow direction.

3. (currently amended) A micromixer according to claim 1, wherein, in the direction of the flow, behind the ~~outlet opening~~ exit area of the guide component, a grid, or a net ~~or an~~ equally effective structure is provided ~~which divides the flow.~~

4. (original) A micromixer according to the claim 1, wherein said channels of the guide component are each formed individually into an electrically conductive base body by wire erosion, wherein the channels for each fluid flow are formed into the base body in the form of a ridge section and auxiliary cuts which have been provided to facilitate the forming of the channels and which interconnect the channels are covered at the channel entrance sides and also at the channel exit sides by a plate.

5. (original) A micromixer according to claim 1, wherein the guide component is manufactured by layered laser welding of metal powder, wherein the channel areas are not melted and are formed by subsequent removal of the powder which has not been melted.

6. (currently amended) A micromixer according to claim 1, wherein the guide component is manufactured from a plastic material by layered hardening of the plastic material by means of a laser stereo lithography procedure ~~(Rapid prototyping)~~, wherein the channel areas are not exposed to light and therefore are not hardened and are formed by subsequent removal of the non-exposed and non-hardened plastic material.

7. (original) A micromixer according to claim 1, wherein the guide component is manufactured by layered laser sintering of ceramic powder, wherein the channel areas are not sintered and the channels are formed by subsequent removal of the non-sintered ceramic powder.

8. (original) A micromixer according to claim 1, wherein the height of said webs is less than 150  $\mu\text{m}$ .